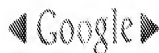




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1. [A New Recurrent Neural Network Architecture for Pattern Recognition](#)

**neural network** architecture in which each output **unit** ... the totally unconstrained handwritten numeral **database** ... The **input** units have linear **transfer function**. The proposed **recurrent neural network** operates as follows. ...

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The proposed **recurrent neural network** has 3 layers. **Input** and hidden layer ... where, 0 is the output of nonlinear **transfer function**., W is weight, and X is **input** to the **unit**. ... tute of Standards and Technology) **database** have been ...

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3. [Prediction of Contact Maps in Proteins Based on Recurrent Neural ...](#)

**2.1 Database.** In this work, we use a large set of non-homologous proteins of solved 3D ... **3 Recurrent Neural Network** with Bias Units and **Input Encoding** ... Gaussian **function** as the activation **transfer function** of the **network**: ... the bias **unit** and the output layer. Vj is the connecting weights between the hidden ...

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4. [An evaluation of recurrent neural network modelling for the ...](#)

We use a two-layer **neural network**, the **transfer function** from **input** layer to the ... into hidden **unit**; bias into hidden **unit**; hidden **unit** into output. ... These data would form the training **database** analogous to the matrix of constant ...

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#### 5. A real-time **recurrent learning network** structure for data ...

A fully connected **recurrent network** with 3 **input** nodes, 4 nodes in its **recurrent** layer and 1 ... from node  $l$  to node  $k$  and  $f(k)$  stands for the **transfer function** of neuron  $k$ . .... Data was extracted out of the plant's historical **database**. .... Meert, K. Catfolis, T. How useful are **recurrent neural s** for realtime ...

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#### 6. Design of Adaptive Filter Using Jordan/Elman **Neural Network** in a ...

Context units copy the activations of output **node** from the previous time step ... Elman **neural network** (ENN) is a type of partial **recurrent neural network**, ... of the **network** and all are also stored as "extra inputs" (called context **unit**) .... **input** PE = 1, output PE = 1, **transfer function** = TanhAxon, learning rule ...

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#### 7. [PDF] A New **Recurrent Neural-Network** Architecture for Visual Pattern ...

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**neural-network** architecture, in which each output **unit** is con- ... strained handwritten numeric **database** of Concordia University,, Montreal, Canada. .... the **input** units. While Jordan's **recurrent neural network** has appeared in a variety of control ... **transfer function**; and the output values of the **input** units are ...

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#### 8. Intelligent systems: technology and applications - Google Books Result

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1.3.3 Optimization **Recurrent neural networks** (RNN) have been used in solving many kinds ... w the set of trainable weights; and  $ip(u)$  the **transfer function**. ...

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## 9. Neural Networks

An Artificial **Neural Network** (ANN) is an information processing paradigm that is .... Feedback architectures are also referred to as interactive or **recurrent**, .... on both the weights and the **input-output function (transfer function)** that .... There is also a strong potential for using **neural networks** for **database ...**

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## 10. Dynamic Process Modeling with **Recurrent Neural Networks**

A **recurrent neural network** is characterized by a set of coupled nonlinear ordinary differential equations ... **unit** (see Appendix A). Figure 2 gives the structure of a neuron .... The differentiable **transfer function**  $f$ , is the sigmoidal **function**, .... **node**, one **input node**, and one fully connected output **node ...**

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